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OF

GALLIUM

1874-1903

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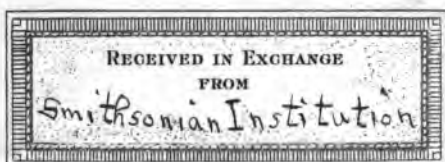
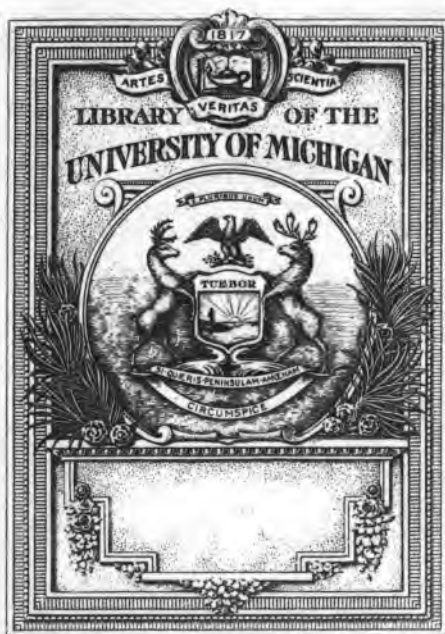
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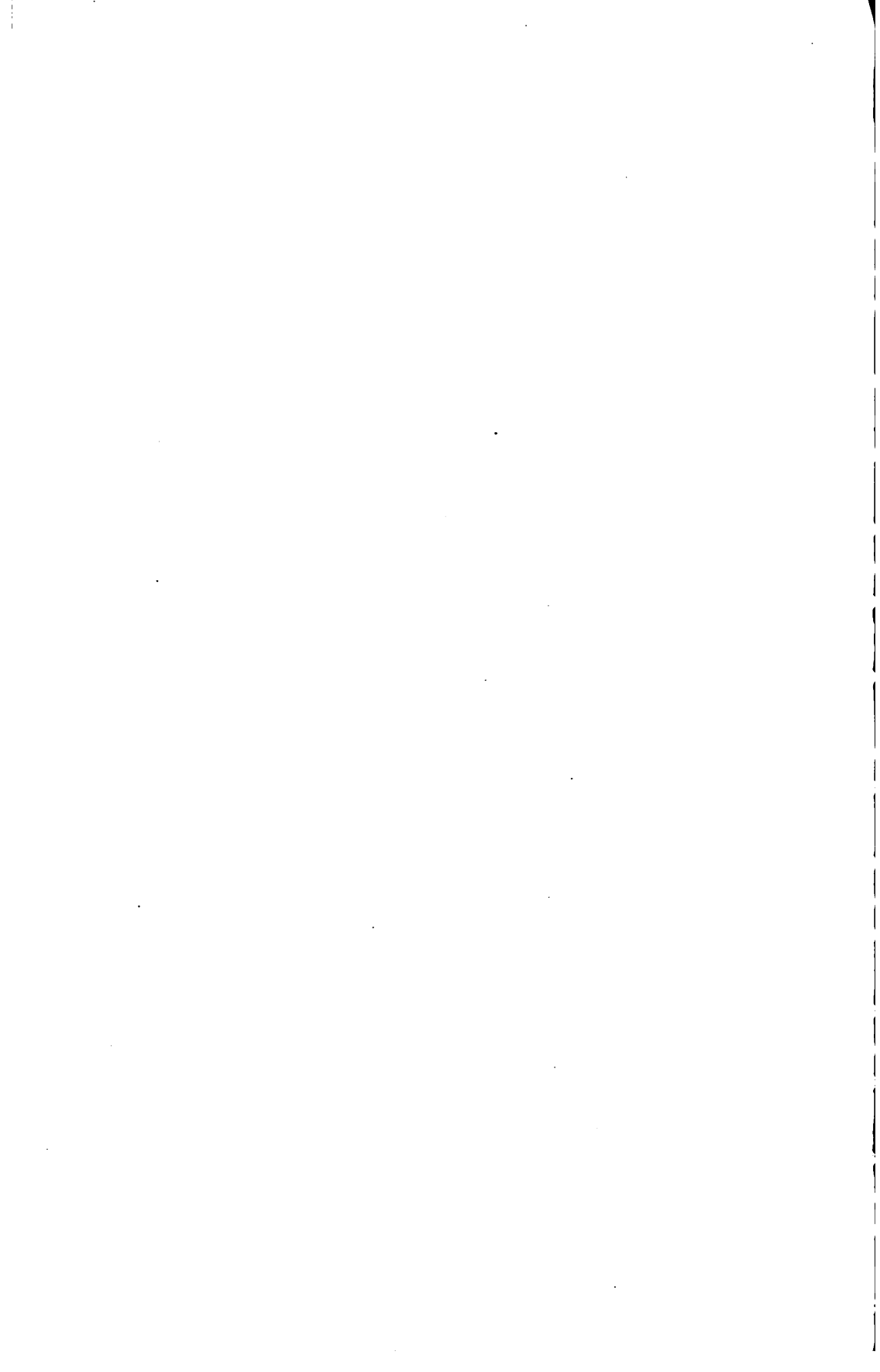


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INDEX TO THE NATURE

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LETTER OF TRANSMITTAL.

WASHINGTON AND LEE UNIVERSITY,
DEPARTMENT OF CHEMISTRY,
LEXINGTON, VA., *October 18, 1904.*

The Committee of the American Association for the Advancement of Science having charge of Indexing Chemical Literature has voted to recommend to the Smithsonian Institution for publication the following:

INDEX TO THE LITERATURE OF GALLIUM, 1875-1903;

INDEX TO THE LITERATURE OF GERMANIUM, 1886-1903;

both prepared by Philip E. Browning, Ph. D., of the Kent Chemical Laboratory of Yale University.

JAS. LEWIS HOWE,
Chairman.

Mr. S. P. LANGLEY,
Secretary of the Smithsonian Institution.

This publication forms one of the following series:

- Index to the Literature of Uranium, 1785-1885, by Henry Carrington Bolton, 1885.
- Index to the Literature of Columbium, 1801-1887, by Frank W. Traphagen, 1888.
- Index to the Literature of the Spectroscope, by Alfred Tuckerman, 1888, 1902.
- Index to the Literature of Thermodynamics, by Alfred Tuckerman, 1890.
- A Bibliography of the Chemical Influence of Light, by Alfred Tuckerman, 1891.
- A Bibliography of Aceto-Acetic Ester, by Paul H. Seymour, 1894.
- Index to the Literature of Didymium, 1842-1893, by A. C. Langmuir, 1895.
- Indexes to the Literature of Cerium and Lanthanum, by W. H. Magee, 1895.
- A Bibliography of the Metals of the Platinum Group, by Jas. Lewis Howe, 1897.
- Review and Bibliography of the Metallic Carbides, by J. A. Mathews, 1898.
- Index to the Literature of Thallium, 1861-1897, by Miss Martha Doan, 1898.
- Index to the Literature of Zirconium, by A. C. Langmuir and Charles Baskerville, 1899.
- A Bibliography of the Analytical Chemistry of Manganese, 1785-1900, by Henry P. Talbot and John W. Brown, 1902.
- Index to the Literature of Thorium, 1817-1902, by Cavalier H. Joüet, 1903.

INDEX TO THE LITERATURE OF GERMANIUM.

(1886-1903.)

PREPARED BY PHILIP E. BROWNING.

1886: (1). WINKLER. (Discovery.)

Ber., xix, 210; Chem. News, LIII, 127; J. Chem. Soc. (Lond.), I, 421; Chem. Ztg., x, 212, 237, 676; Amer. Chem. J., ix, 71; Ztschr. Anal. Chem., xxv, 226; Ding. Pol. J., cclix, 474; Bull. Soc. Chem. (Paris), xlvi, 320; Wag. Jsb., xxxiii, 223; Chem. Centrbl. (1886), 242; Amer. J. Sci., (3), xxxi, 308; J. de Pharm., (5), xiii, 335.

1886: (2). LECOQ DE BOISBAUDRAN. (Atomic weight and spectrum.)

Compt. rend., cii, 1291; Ber., xix, 479R; Jsb. (1886), 47; Chem. News, LIV, 4; J. Chem. Soc. (Lond.), I, 768; Chem. Ztg. Rep. (1886), 137.

1886: (3). WINKLER. (Extraction, properties of element, salts, etc.)

J. Prakt. Chem., (2), xxxiv, 177; Ber., xix, 625R; Jsb. (1886), 374; Chem. Ztg. (1886), 1057; Chem. News, LIV, 136; J. Chem. Soc. (Lond.), I, 985; Bull. Soc. Chim. (Paris), xlvi, 644; J. de Pharm., (5), xiv, 478; Wag. Jsb., xxxii, 223; Chem. Centrbl. (1886), 770, 771.

1886: (4). WEISBACH. (Argyrodite—A new mineral.)

Jsb. f. Min. (1886); J. Chem. Soc. (Lond.), I, 774; Chem. News, LIII, 257; Ztschr. Anal. Chem., xxv, 226.

1886: (5). LECOQ DE BOISBAUDRAN. (Atomic weight.)

Compt. rend., ciii, 452; Ber., xix, 738R.

1886: (6). C. KOB. (Emission spectrum.)

Ann. der Phys., (2), xxix, 670; Jsb. (1886), 304; J. Chem. Soc. (Lond.), LI, 313.

1886: (7). QUESNEVILLE. (Request for change of name to Ekasilicon.)

Chem. News, LIV, 49.

1886: (8). NILSON and PETTERSON. (Specific and atomic heat.)

Ztschr. Phys. Chem., I, 27; Jsb. (1887), 218; Ber., xx, 134R; Chem. News, LV, 186; J. Chem. Soc. (Lond.), LI, 778; Chem. Centrbl (1887), xviii, 329; Tidsskrift, (2), viii, 149.

- 1887: (1). WINKLER. (Compounds.)
 J. Prakt. Chem., (2), xxxvi, 177; J. Chem. Soc. (Lond.), LII, 1081;
 Jsb. (1887), 459; Chem. Ztg. (1887), 1123; Ber., xx, 677r; Amer.
 Chem. J., x, 245; Ztschr. anal. Chem., xxvi, 273, 359; Bull. Soc.
 Chim. (Paris), XLIX, 109; Amer. J. Sci., (3), xxxiii, 68; Chem.
 Centrbl. (1887), xviii, 1340.
- 1887: (2). V. MEYER. (Properties of the element.)
 Ber., xx, 498; Jsb. (1887), 378; J. Chem. Soc. (Lond.), LII, 445;
 Chem. Ztg. Rep. (1887), 81; Bull. Soc. Chim. (Paris), XLVII, 764;
 Chem. Centrbl. (1887), xviii, 474, 1340.
- 1887: (3). WINKLER. (Relation to Si. group.)
 Naturf. Vers. zu Wiesb., Sekt. f. Chem. 20 Sept. Tagebl. 85 Chem.
 Centrbl. (1887), 1341.
- 1887: (4). KRÜSS and NILSON. (Potassium-Germanium Fluoride.)
 Oefvers. af k. Swenska Vetenskaps Akademiens Forhandlingar (1887),
 No. 5; Ber., xx, 1696; Jsb. (1887), 466; Bull. Soc. Chim. (Paris),
 XLVIII, 501; Tidsekrift (2), viii, 265.
- 1887: (5). J. M. VAN BEMMELEN. (Oxide.)
 Rec. Trav. Chem. Pays Bas, vi, 205; Jsb. (1887), 458; Ber., xx, 677r,
 J. Chem. Soc. (Lond.), LIV, 1041; Chem. Centrbl. (1887), xviii,
 1099.
- 1887: (6). PAJKULL and BRÖGGER. (Crystallographic determination
 of K_2GeF_6 .)
 Zeitschr. Kryst., xv, 95; Oefvers. Sw. Vet. Akad. Forh. (1887), 302;
 Jsb. (1888), 546.
- 1887: (7). K. HAUSHOFER. (Microscopic reactions.)
 Sitzungsab. d. Akad. d. Wissensch. z. München (1887), i, 133; Ber., xx,
 660r; Jsb. (1887), 2417; J. Chem. Soc. (Lond.), LVI, 78.
- 1887: (8). WILLGEROOT. (Reaction with halogens.)
 J. Prakt. Chem., (2), xxxv, 391; Jsb. (1887), 618.
- 1887: (9). KRÜSS. (Germanium in Euxenite.)
 Ber., xxi, 131; Jsb. (1888), 546; J. Chem. Soc. (Lond.), LIV, 345;
 Chem. Ztg. (1887), 1638; Bull. Soc. Chim. (Paris), XLIX, 628;
 Amer. J. Sci., (3), xxxv, 410; Chem. Centrbl. (1888), xix, 275.
- 1888: (1). HAMPE. (Non-conductivity.)
 Chem. Ztg, xii, 171, 173; J. Chem. Soc. (Lond.), LIV, 89.
- 1889: (1). HAUSHOFER. (Microscopic reactions.)
 Ztschr. f. Kryst., xvii, 295; Jsb. (1889), 427; Chem. Tech. Ztg., vi,
 315; Chem. Centrbl. (1888), 867.
- 1891: (1). CLARKE. (Atomic weight.)
 Chem. News, LXIII, 76; Jsb. (1891), 79.



